

PTO/SB/08A (08-03)

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Substitute Form 1448/PTO

**INFORMATION DISCLOSURE  
STATEMENT BY APPLICANT**

(Use as many sheets as necessary)

Sheet 1 of 3

**Complete if Known**

Application Number	10/632,254
Filing Date	August 1, 2003
First Named Inventor	Ashim Kumar Ghosh
Art Unit	<del>1704</del> 1753
Examiner Name	WOOD
Attorney Docket Number	SABI-30144

**U. S. PATENT DOCUMENTS**

Examiner Initials*	Cite No. <sup>1</sup>	Document Number	Publication Date MM-DD-YYYY	Name of Patentee or Applicant of Cited Document	Pages, Columns, Lines, Where Relevant Passages or Relevant Figures Appear
		Number-Kind Code <sup>2</sup> (if known)			
C/W		US- 3,702,886	11-14-1972	Argauer, et al.	
		US- 3,965,207	06-22-1976	Weinstein	
		US- 4,278,827	07-14-1981	Chu, et al.	
		US- 5,210,356	05-11-1993	Shamshoum, et al.	
		US- 5,227,558	07-13-1993	Shamshoum, et al.	
		US- 5,336,824	08-09-1994	Shamshoum, et al.	
		US- 5,349,113	09-20-1994	Chang, et al.	
		US- 5,387,732	02-07-1995	Shamshoum, et al.	
		US- 5,847,255	12-08-1998	Ghosh, et al.	
		US- 5,907,073	05-27-1999	Ghosh	
		US- 5,990,031	11-23-1999	Ghosh	
		US- 5,994,603	11-30-1999	Mohr, et al.	
		US- 6,057,485	05-02-2000	Merrill, et al.	
		US- 6,090,991	07-18-2000	Butler, et al.	
		US- 6,096,938	08-01-2000	Ghosh	
		US- 6,222,084B1	04-24-2001	Ghosh, et al.	
		US- 6,268,305B1	07-31-2001	Butler, et al.	
		US- 6,504,072B1	01-07-2003	Brown, et al.	
		US-			

**FOREIGN PATENT DOCUMENTS**

Examiner Initials*	Cite No. <sup>1</sup>	Foreign Patent Document	Publication Date MM-DD-YYYY	Name of Patentee or Applicant of Cited Document	Pages, Columns, Lines, Where Relevant Passages Or Relevant Figures Appear	T <sup>6</sup>
		Country Code <sup>3</sup> Number <sup>4</sup> Kind Code <sup>5</sup> (if known)				

Examiner  
Signature

WOOD

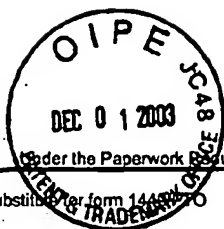
Date  
Considered

3/1/05

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<b>INFORMATION DISCLOSURE STATEMENT BY APPLICANT</b>  (Use as many sheets as necessary)		<b>Complete if Known</b>	
		Application Number	10/632,254
		Filing Date	August 1, 2003
		First Named Inventor	Ashim Kumar Ghosh
		Art Unit	<del>1764</del> 1753
		Examiner Name	WOOD
Sheet 2	of 3	Attorney Docket Number	SABI-30144

NON PATENT LITERATURE DOCUMENTS			
Examiner Initials*	Cite No. <sup>1</sup>	Include name of the author (in CAPITAL LETTERS), title of the article (when appropriate), title of the item (book, magazine, journal, serial, symposium, catalog, etc.), date, page(s), volume-issue number(s), publisher, city and/or country where published.	T <sup>2</sup>
WJW	AA	KAEDING, W.W., et al., Selective Alkylation of Toluene to Produce para-Xylene, Journal of Catalysis 67, 1981, pp. 159-174. *	
	AB	HIBINO, T., et al., Shape-Selectivity Over HZSM-5 Modified by Chemical Vapor Deposition of Silicon Alkoxide, Journal of Catalysis 128, 1991, pp. 551-558. *	
	AC	YASHIMA, T., et al., Selective Formation of p-Xylene by Alkylation of Toluene with Methanol on ZSM-5 Type Zeolites, Stud. Surf. Sci. Catal., 1981, 7, pp. 739-751. *	
	AD	SAYED, M. B., et al., The Effect of Modification with Boron on the Catalytic Activity and Selectivity of HZSM-5, Journal of Catalysis 101, 1986, pp. 43-55. *	
	AE	KIM, J.-H., et al., Generation of Shape-Selectivity of p-Xylene Formation in the Synthesized ZSM-5 Zeolites, Journal of Catalysis 173, 1998, pp. 433-439. *	
	AF	VINEK, H., et al., Production and Reactions of Xylenes over H-ZSM-5, Journal of Molecular Catalysis, 64, 1991, pp. 23-39. *	
	AG	CHEN, N.Y., Reactions of Mixtures of Toluene and Methanol Over ZSM-5, Journal of Catalysis 114, 1988, pp. 17-22. *	
	AH	YOUNG, L.B., et al., Shape Selective Reactions with Zeolite Catalysts, Journal of Catalysis 76, 1982, pp. 418-432. *	
	AI	NIRULA, S.C., Para-Xylene From Toluene and Methanol, Process Economics Program, 1983, pp. 1-23, SRI International, Menlo Park, CA. *	
	AJ	WANG, I., et al., Para-selectivity of Diaklybenzenes over Modified HZSM-5 by Vapour Phase Deposition of Silica, Applied Catalysis, 54, 1989, 257-266. *	

Examiner Signature	WOOD	Date Considered	3/1/05
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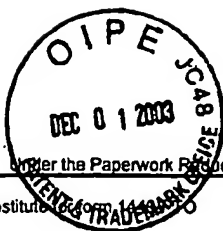
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<sup>1</sup> Applicant's unique citation designation number (optional). <sup>2</sup> Applicant is to place a check mark here if English language Translation is attached.

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		Application Number	10/632,254
		Filing Date	August 1, 2003
		First Named Inventor	Ashim Kumar Ghosh
		Art Unit	<del>1764</del> 1755
		Examiner Name	WOOD
Sheet 3	of 3	Attorney Docket Number	SABI-30144

NON PATENT LITERATURE DOCUMENTS			
Examiner Initials*	Cite No. <sup>1</sup>	Include name of the author (in CAPITAL LETTERS), title of the article (when appropriate), title of the item (book, magazine, journal, serial, symposium, catalog, etc.), date, page(s), volume-issue number(s), publisher, city and/or country where published.	T <sup>2</sup>
WAK		DAS, J., et al., Ethylbenzene Dealkylation and Realkylation over Pore Size Regulated MFI Zeolite, Ind. Eng. Chem. Res., 32, 1993, pp. 2525-2529. *	
AL		KIM, J.-H., et al., Para-selectivity of Metallosilicates with MFI Zeolite Structure Zeolites, Vol. 11, 1991, pp. 59-63. *	
AM		KIM, J.-H., et al., Preparation of Highly Para-selective Metallosilicate Catalysts for Alkylation of Ethylbenzene with Ethanol, Applied Catalysis A:100, 1993, pp. 27-36. *	

Examiner Signature	WOOD	Date Considered	3/1/05
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Substitute for form 1449/PTO

**INFORMATION DISCLOSURE  
STATEMENT BY APPLICANT**

(Use as many sheets as necessary)

Sheet 2 of 9**Complete if Known**

Application Number	10/632,254
Filing Date	August 1, 2003
First Named Inventor	Ashim Kumar Ghosh
Art Unit	1784 <i>LX5</i>
Examiner Name	<i>WJOP</i>
Attorney Docket Number	SABI-30144 (STC-03-0004)

U. S. PATENT DOCUMENTS					
Examiner Initials*	Cite No. <sup>1</sup>	Document Number Number-Kind Code <sup>2</sup> (if known)	Publication Date MM-DD-YYYY	Name of Patentee or Applicant of Cited Document	Pages, Columns, Lines, Where Relevant Passages or Relevant Figures Appear
<i>WJOP</i>		US- 4,891,930	08-29-1980	Cottrell et al.	
		US- 4,873,087	10-10-1989	Valyocsik et al.	
		US- 4,891,197	01-02-1990	Derouane et al.	
		US- 4,891,467	01-02-1990	Sikkenga	
		US- 4,902,406	02-20-1990	Valyocsik	
		US- 4,912,073	03-27-1990	Chu	
		US- 4,914,067	04-03-1990	Pellet et al.	
		US- 4,936,574	08-19-1990	D'Amore et al.	
		US- 4,962,255	10-09-1990	Fraenkel et al.	
		US- 4,973,781	11-27-1990	Valyocsik et al.	
		US- 5,041,402	08-20-1991	Casci et al.	
		US- 5,043,502	08-27-1991	Martindale et al.	
		US- 5,047,141	09-10-1991	Chu	
		US- 5,068,483	11-26-1991	Barthomeuf et al.	
		US- 5,094,995	03-10-1992	Butt et al.	
		US- 5,105,047	04-14-1992	Waller	
		US- 5,108,579	04-28-1992	Casci	
		US- 5,110,776	05-05-1992	Chitnis et al.	
		US- 5,124,299	06-23-1992	Waller	

FOREIGN PATENT DOCUMENTS					
Examiner Initials*	Cite No. <sup>1</sup>	Foreign Patent Document Country Code <sup>2</sup> Number <sup>3</sup> Kind Code <sup>4</sup> (if known)	Publication Date MM-DD-YYYY	Name of Patentee or Applicant of Cited Document	Pages, Columns, Lines, Where Relevant Passages Or Relevant Figures Appear

Examiner Signature <i>WJOP</i>	Date Considered 3/1/05
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<b>INFORMATION DISCLOSURE STATEMENT BY APPLICANT</b> (Use as many sheets as necessary)		Application Number	10/632,254
		Filing Date	August 1, 2003
		First Named Inventor	Ashim Kumar Ghosh
		Art Unit	1784 TAS
		Examiner Name	12008
Sheet 3 of 9	Attorney Docket Number	SABI-30144 (STC-03-0004)	

U. S. PATENT DOCUMENTS					
Examiner Initials*	Cite No.	Document Number	Publication Date MM-DD-YYYY	Name of Patentee or Applicant of Cited Document	Pages, Columns, Lines, Where Relevant Passages or Relevant Figures Appear
CUT		US- 5,171,921	12-15-1992	Gaffney et al.	
		US- 5,173,461	12-22-1992	Absil et al.	
		US- 5,178,748	01-12-1993	Casci et al.	
		US- 5,231,064	07-27-1993	Absil et al.	
		US- 5,233,102	08-03-1993	Burt et al.	
		US- 5,248,688	09-21-1993	Faust et al.	
		US- 5,248,841	09-28-1993	Young	
		US- 5,264,767	10-19-1993	Dwyer	
		US- 5,264,770	10-19-1993	Olson et al.	
		US- 5,294,578	03-15-1994	Ho et al.	
		US- 5,315,033	05-24-1994	Burt et al.	
		US- 5,318,696	06-07-1994	Kowalski	
		US- 5,321,183	06-14-1994	Chang et al.	
		US- 5,338,478	08-09-1994	Dwyer et al.	
		US- 5,345,021	09-06-1994	Casci et al.	
		US- 5,348,643	09-20-1994	Absil et al.	
		US- 5,349,113	09-20-1994	Chang et al.	
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		US- 5,366,948	11-22-1994	Absil et al.	

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Examiner Signature	WJOP	Date Considered	8/1/05
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# INFORMATION DISCLOSURE STATEMENT BY APPLICANT

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Sheet	4	of	9
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**Complete if Known**

Application Number	10/632,254
Filing Date	August 1, 2003
First Named Inventor	Ashim Kumar Ghosh
Art Unit	#84-1253
Examiner Name	WOO
Attorney Docket Number	SABI-30144 (STC-03-0004)

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		Number-Kind Code‡ (if known)				
CWO		US- 5,367,100	11-22-1994	Gongwei et al.		
		US- 5,371,307	12-06-1994	Guth et al.		
		US- 5,378,670	01-03-1995	Kumar		
		US- 5,380,690	01-10-1995	Zhicheng et al.		
		US- 5,385,718	01-31-1995	Casci et al.		
		US- 5,399,336	03-21-1995	Guth et al.		
		US- 5,430,212	07-04-1995	Butt et al.		
		US- 5,430,213	07-04-1995	Hendriksen et al.		
		US- 5,446,234	08-29-1995	Casci et al.		
		US- 5,455,213	10-03-1995	Chang et al.		
		US- 5,456,821	10-10-1995	Absil et al.		
		US- 5,464,799	11-07-1995	Casci et al.		
		US- 5,475,179	12-12-1995	Chang et al.		
		US- 5,498,814	03-12-1996	Chang et al.		
		US- 5,503,816	04-02-1996	Nicolaidis		
		US- 5,516,736	05-14-1996	Chang et al.		
	CWO		US- 5,523,510	06-04-1996	Pellet et al.	
			US- 5,534,239	07-09-1996	Fajula et al.	
		US- 5,536,894	07-16-1996	Degnan et al.		

**FOREIGN PATENT DOCUMENTS**

[illegible]

**Examiner  
Signature**

12072

Date	Considered	Remarks

27/05

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Sheet 5 of 9

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Art Unit	1784 1733
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		US- 6,641,146	07-30-1996	Chang et al.	
		US- 6,681,095	10-01-1996	Chen et al.	
		US- 5,563,310	10-08-1996	Chang et al.	
		US- 5,569,805	10-29-1996	Beck et al.	
		US- 5,571,788	11-05-1996	Chang et al.	
		US- 5,573,746	11-12-1996	Chen	
		US- 5,576,256	11-19-1996	Monque et al.	
		US- 5,607,888	03-04-1997	Chang et al.	
		US- 5,607,890	03-04-1997	Chen et al.	
		US- 5,646,314	07-08-1997	Crocco et al.	
		US- 5,648,580	07-15-1997	Chen et al.	
		US- 5,668,454	08-19-1997	Absil et al.	
		US- 5,875,047	10-07-1997	Beck et al.	
		US- 5,689,024	11-18-1997	Schmitt	
		US- 5,698,756	12-16-1997	Beck et al.	
		US- 5,780,563	07-14-1998	Chen et al.	
		US- 5,789,335	08-04-1998	Chen et al.	
		US- 5,811,613	09-22-1998	Bhat et al.	
		US- 5,833,840	10-10-1998	Absil et al.	

Examiner Initials*	Cite No.	FOREIGN PATENT DOCUMENTS			
		Foreign Patent Document	Publication Date MM-DD-YYYY	Name of Patentee or Applicant of Cited Document	Pages, Columns, Lines, Where Relevant Passages Or Relevant Figures Appear
		Country Code <sup>3</sup> Number <sup>4</sup> Kind Code <sup>5</sup> (if known)			

Examiner Signature	WOOD	Date Considered	3/1/05
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## INFORMATION DISCLOSURE STATEMENT BY APPLICANT

(Use as many sheets as necessary)

**Complete if Known**

Application Number	10/632,254
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Filing Date	August 1, 2003
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First Named Inventor	Ashim Kumar Ghosh
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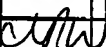
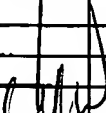
Art Unit	1704	1755
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Examiner Name	<i>[Signature]</i>
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Attorney Docket Number **SABF-30144 (STC-03-0004)**

Sheet	6	of	9
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## U. S. PATENT DOCUMENTS

U. S. PATENT DOCUMENTS					
Examiner Initials*	Cite No.	Document Number	Publication Date MM-DD-YYYY	Name of Patentee or Applicant of Cited Document	Pages, Columns, Lines, Where Relevant Passages or Relevant Figures Appear
 		US- 5,802,919	05-11-1999	Chen et al.	
		US- 5,905,051	05-18-1999	Wu et al.	
		US- 5,922,922	07-13-1999	Harris et al.	
		US- 5,925,586	07-20-1999	Sun	
		US- 5,939,597	08-17-1999	Dessau et al.	
		US- 5,951,983	09-14-1999	He et al.	
		US- 5,955,641	09-21-1999	Chen et al.	
		US- 5,994,603	11-30-1999	Mohr et al.	
		US- 6,034,283	03-07-2000	Ban et al.	
		US- 6,040,257	03-21-2000	Drake et al.	
		US- 6,046,128	04-04-2000	Kisen et al.	
		US- 6,047,544	04-11-2000	Yamamoto et al.	
		US- 6,048,816	04-11-2000	Brown et al.	
		US- 6,060,633	06-09-2000	Chen et al.	
		US- 6,074,975	06-13-2000	Yao et al.	
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		US- 6,083,866	07-04-2000	Drake et al.	
	US- 6,090,274	07-18-2000	Wu et al.		

**FOREIGN PATENT DOCUMENTS**

[illegible]

Examiner Signature	<i>W. J. J.</i>	Date Considered	3/1/75
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\*EXAMINER: Initial reference considered, whether or not citation is in conformance with MPEP 809. Draw line through citation if not in conformance and not considered. Include copy of this form with next communication to applicant. Applicant's unique citation designation number (optional). \*See Kinds Codes of USPTO Patent Documents at [www.uspto.gov](http://www.uspto.gov) or MPEP 901.04. \*Enter Office that issued the document, by the two-letter code (WIPO Standard ST.3). \*For Japanese patent documents, the indication of the year of the reign of the Emperor must precede the serial number of the patent document. \*Kind of document by Translation is attached.

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## INFORMATION DISCLOSURE STATEMENT BY APPLICANT

(Use as many sheets as necessary)

Sheet	7	of	9
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**Complete if Known**

Application Number	10/632,254
Filing Date	August 1, 2003
First Named Inventor	Ashim Kumar Ghosh
Art Unit	1704 1783
Examiner Name	Wong
Attorney Docket Number	SAB1-30144 (STC-03-0004)

U. S. PATENT DOCUMENTS						
Examiner Initials*	Cite No.	Document Number	Publication Date MM-DD-YYYY	Name of Patentee or Applicant of Cited Document	Pages, Columns, Lines, Where Relevant Passages or Relevant Figures Appear	
		Number-Kind Code <sup>2</sup> (if known)				
CEN		US- 6,100,437	08-08-2000	Koehl et al.		
		US- 6,124,227	09-26-2000	Yao et al.		
		US- 6,150,293	11-21-2000	Verduijn et al.		
		US- 6,156,949	12-05-2000	Brown et al.		
		US- 6,160,191	12-12-2000	Smith et al.		
		US- 6,187,982	02-13-2001	Beck et al.		
		US- 6,211,104	04-03-2001	Shi et al.		
		US- 6,217,748	04-17-2001	Hatanaka et al.		
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		US- 6,306,790	10-23-2001	Rodriguez et al.		
		US- 6,342,153	01-29-2002	Guan et al.		
		US- 6,388,156	06-14-2002	Qu et al.		
		US- 6,395,664	05-28-2002	Boehner et al.		
		US- 6,299,530	06-04-2002	Chen et al.		
	CEN		US- 6,417,421	07-09-2002	Yao	
			US- 6,423,879	07-23-2002	Brown et al.	
		US- 6,444,610	09-03-2002	Yamamoto		

[illegible]

Examiner Signature	<i>L. J. DODD</i>	Date Considered	<i>3/1/05</i>
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EXAMINER: Initial if reference considered, whether or not citation is in conformance with MPEP 809. Draw line through citation if not in conformance and not considered. Include copy of this form with next communication to applicant. \* Applicant's unique citation designation number (optional). \* See Kinds Codes of USPTO Patent Documents at [www.uspto.gov](http://www.uspto.gov) or MPEP 501.04. \* Enter Office that issued the document, by the two-letter code (WIPO Standard ST.3). \* For Japanese patent documents, the indication of the year of the reign of the Emperor must precede the serial number of the patent document. \* Kind of document by the appropriate symbols as indicated on the document under WIPO Standard ST.16 if possible. \* Applicant is to place a check mark here if English language Translation is attached.

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**INFORMATION DISCLOSURE  
STATEMENT BY APPLICANT**

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Sheet 8

of

9

**Complete If Known**

Application Number	10/632,254
Filing Date	August 1, 2003
First Named Inventor	Ashim Kumar Ghosh
Art Unit	1284
Examiner Name	122028
Attorney Docket Number	SAB1-30144 (STC-03-0004)

U. S. PATENT DOCUMENTS					
Examiner Initials*	Cite No.†	Document Number	Publication Date MM-DD-YYYY	Name of Patentee or Applicant of Cited Document	Pages, Columns, Lines, Where Relevant Passages or Relevant Figures Appear
		Number-Kind Code* (if known)			
		US- 8,459,008	10-01-2002	Ou et al.	
		US- 8,469,095	11-22-2002	Gareiss et al.	
		US- 6,503,862	01-07-2003	Yamamoto	
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		US- 6,504,074	01-07-2003	Verduijn et al.	
		US- 6,506,954	01-14-2003	Brown et al.	
		US- 6,518,213	02-11-2003	Yamamoto et al.	
		US- 6,548,725	04-15-2003	Froment et al.	
		US- 6,566,293	05-20-2003	Vogt et al.	
		US- 6,589,901	07-08-2003	Yamamoto	
		US- 6,613,708	09-02-2003	Ou et al.	
		US- 6,613,951	09-02-2003	Brown et al.	
		US- 6,642,428	11-04-2003	Johnson et al.	
		US- 6,689,929	02-10-2004	Williams et al.	
		US- 6,699,811	03-02-2004	Mohr et al.	
		US- 6,723,297	04-20-2004	Chen et al.	
		US- 6,726,834	04-27-2004	Quesada et al.	
		US- 6,770,251	08-03-2004	Yoshikawa	
		US- 6,773,694	08-10-2004	Lesch et al.	

FOREIGN PATENT DOCUMENTS					
Examiner Initials*	Cite No.†	Foreign Patent Document	Publication Date MM-DD-YYYY	Name of Patentee or Applicant of Cited Document	Pages, Columns, Lines, Where Relevant Passages or Relevant Figures Appear
		Country Code* Number* Kind Code* (if known)			

Examiner Signature	Date Considered
<i>[Signature]</i>	3/1/05

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## INFORMATION DISCLOSURE STATEMENT BY APPLICANT

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Sheet	8	of	9
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**Complete if Known**

Application Number	10/632,254
Filing Date	August 1, 2003
First Named Inventor	Ashim Kumar Ghosh
Art Unit	1764 1753
Examiner Name	WOO
Attorney Docket Number	SAB-30144

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Examiner Signature	<i>WJW</i>	Date Considered	3/1/01
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